

Title (en)

CONFIDENTIAL VIEWING SYSTEM UTILIZING SPATIAL MULTIPLEXING

Title (de)

VERTRAULICHES BETRACHTUNGSSYSTEM MIT RÄUMLICHEM MULTIPLEXEN

Title (fr)

SYSTEME DE VISUALISATION CONFIDENTIELLE FAISANT APPEL A UN MULTIPLEXAGE SPATIAL

Publication

EP 1743312 A4 20080827 (EN)

Application

EP 05731230 A 20050330

Priority

- US 2005010807 W 20050330
- US 55790104 P 20040330

Abstract (en)

[origin: WO2005096740A2] An apparatus and method for providing confidential viewing of a fundamental image on an image display device utilizing spatial multiplexing image modification, whereby fundamental image components of the fundamental image are spatially multiplexed or combined with appropriately determined inverted image components thereof, and aligned with adjacent display regions/pixels of an image display device so as to neutralize the fundamental image and generate a combined image that appears substantially featureless to the naked eye. The display pixels aligned with the fundamental image components are cross-polarized relative to the adjacent pixels aligned with the inverted image components, thereby providing for extraction of the fundamental image by an authorized viewer wearing appropriate eyewear polarized to correlate with the state of polarization of the pixels aligned with the fundamental image components. Enhanced security may be provided by utilizing a variable polarizer to alter the state of polarization of the respective display regions, or by altering the position of fundamental and inverse image components to align with differently polarized display regions. Extraction of the fundamental image may then be accomplished by using active polarized eyewear synchronized to correlate in polarization with the pixels aligned with the fundamental image components.

IPC 8 full level

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CPC (source: EP)

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Citation (search report)

- [DX] US 2003118183 A1 20030626 - STRUYK DAVID A [US]
- [DX] US 2003128218 A1 20030710 - STRUYK DAVID A [US]
- See references of WO 2005096740A2

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DE FR GB

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DOCDB simple family (application)

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